

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 61-205182

(43)Date of publication of application : 11.09.1986

---

(51)Int.Cl. B41M 5/18

---

(21)Application number : 60-044637 (71)Applicant : TOMOEGAWA PAPER CO  
LTD

(22)Date of filing : 08.03.1985 (72)Inventor : KIYOHARA TADASHI

---

## (54) MULTICOLOR RECORDING MATERIAL

### (57)Abstract:

PURPOSE: To obtain a multicolor recording without intermixture of colors by utilizing different infrared rays by plurally laminating layers containing a developer for the color-forming substance in a mutually adjoining manner.

CONSTITUTION: Layers 4a, 4b, and 4c containing substances 2a, 2b, and 2c to produce different colors and infrared rays absorbers 3a, 3b, and 3c having different max. absorption wavelengths are laminated alternately with layers 6a and 6b containing developers 5a and 5b to produce colors upon thermal reactions with the color-forming substances 2a, 2b, and 2c to make up a multi-color recording material. When the layers 4a, 4b, and 4c are exposed to infrared rays  $\lambda_a$ ,  $\lambda_b$ , and  $\lambda_c$  corresponding to the absorbers 3a, 3b, and 3c respectively and heated, the substances 2a, 2b, and 2c are melted and reacted with the developers 5a and 5b in the layers 6a and 6b touched by the layers 4a, 4b, and 4c to cause chromogenic reactions, forming colored portions 7a, 7b, and 7c.